Table of Contents

Sensor reference codes

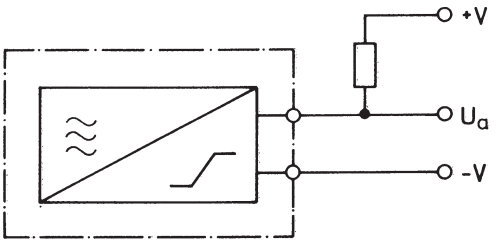
Designation	Casing form	Output technique	Switching function	Cable or connector	Status indicator	Option
XX -	XXX	X	X -	XX	X -	X
IR Inductive round **IM** Inductive quadratic **QE** Sensing elements	**003** Ø 3 mm **004** Ø 4 mm 4x4 mm **005** M5 **006** 6 x 6 mm **065** Ø 6.5 mm **008** 8 x 8 mm M8 x 1 **010** Ø 10 mm **012** M12 x 1 **018** M18 x 1 **022** 12 x 22 mm **812** 8 x 12 mm **525**	**A** Analog **N** NPN Output **P** PNP Output **E** Electromecha-nical **R** Controllable extern **D** Digital	**S** Normally open **O** Normally closed **H** Light on **D** Dark on **B** Normally open and Normally closed **X** Vacant	**U2** Cable PUR 2 meter **U5** Cable PUR 5 meter **U9** Cable PUR 9 meter **01** Connector Meto-Fer **02** Connector Meto-Fer threaded connection **10** 3-Channel connector **11** 3-Channel connector threaded connection **30** 4-Channel connector threaded connection	**L** with LED **0** without LED	**A** without corporate name Meto-Fer Elektronik AG

Cable reference codes

Designation	Connector form	Number of leads	Cable cross section	Cable and length	Status indcator
XX -	XXX -	X	X -	XX	X
ST Cable	**01G** Meto-Fer connector straight **02G** Meto-Fer connector straight threaded connection **10G** 3 Channel connector straight **10W** 3 Channel connector right angle **11G** 3 Channel connector straight threaded connection **11W** 3 Channel connector right angle threaded connection **30G** 4 Channel connector straight threaded connection **30W** 4 Channel connector right angle threaded connection	**2** Lead **3** Lead **4** Lead	**A** 0.14mm **B** 0.25mm	**U2** Cable PUR 2 meter **U5** Cable PUR 5 meter **U9** Cable PUR 9 meter	**X** without LED

NAMUR, PNP and NPN Information

NAMUR Proximity Switch:

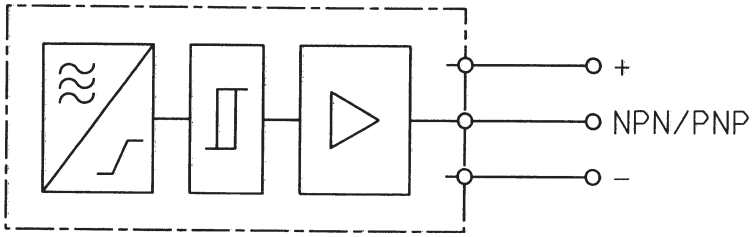


NAMUR-proximity switches have 2 wires which are connected to the supply with a current limiting resistor.
The value of the limiting resistor depends on the supply voltage. According to NAMUR, the limiting resistor has a value of 1kOhm at a supply voltage of 8.2V (Temp = +20°C (+68°F)).

When the load is activated, the current consumption of the proximity switch is small; i.e. the voltage drop over the sensor element is large.
When the load is not activated, the current consumption of the proximity switch is large; i.e. the voltage drop over the sensor element is small.

Caution: A serial mounting of NAMUR proximity switches is not allowed!

LOGIC Proximity Switch:



All logic proximity switches that are alternatively available in PNP or NPN version have 3 wires.
The PNP-output signal is measured between the PNP-output wire and the negative-voltage supply-wire (blue).
The NPN-output signal is measured between the NPN-output wire and the positive-voltage supply-wire (brown).

The parallel-, as well as the serial mounting of 3-wire or 4-wire proximity switches is allowed.
The maximum number of serial mounted proximity switches varies depending on the value of the supply voltage and is limited by the value of the respective voltage drop of the elements.

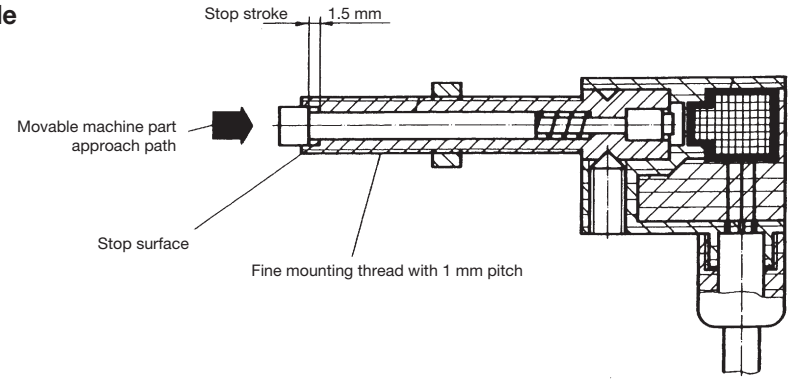
Precision Stop System With Sensing Element

For monitoring mechanical motions, Meto-Fer has a patented Stop System that provides fine stroke adjustment of the stop position and simultaneously provides an output in electrical, electronic, or pneumatic form to confirm that the stop position has been met.

Stop screw with locknut

Plug-in sensing element

Functional Principle

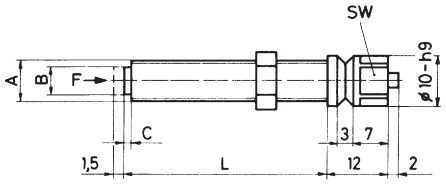


* Please note additional information on page 12 / 13

- The stop screw is used to adjust the mechanical end-position of the motion.
- The fine thread of the stop screw allows exact adjustment of the mechanical end position. The locknut secures the adjusted position.
- The stop screw contains a spring and hardened stop pin, which operates the attached sensing element when the pin is driven to the end position.
- The stroke of the hardened stop striker is 1.5 mm.
- This combination eliminates the need for a secondary sensor adjustment after the hard stop adjustment has been made.
- They come standard on all our rotary and linear actuators, or they can be integrated into your design as stand alone products whenever precision feedback and adjustment are required.

Stop Screw AS

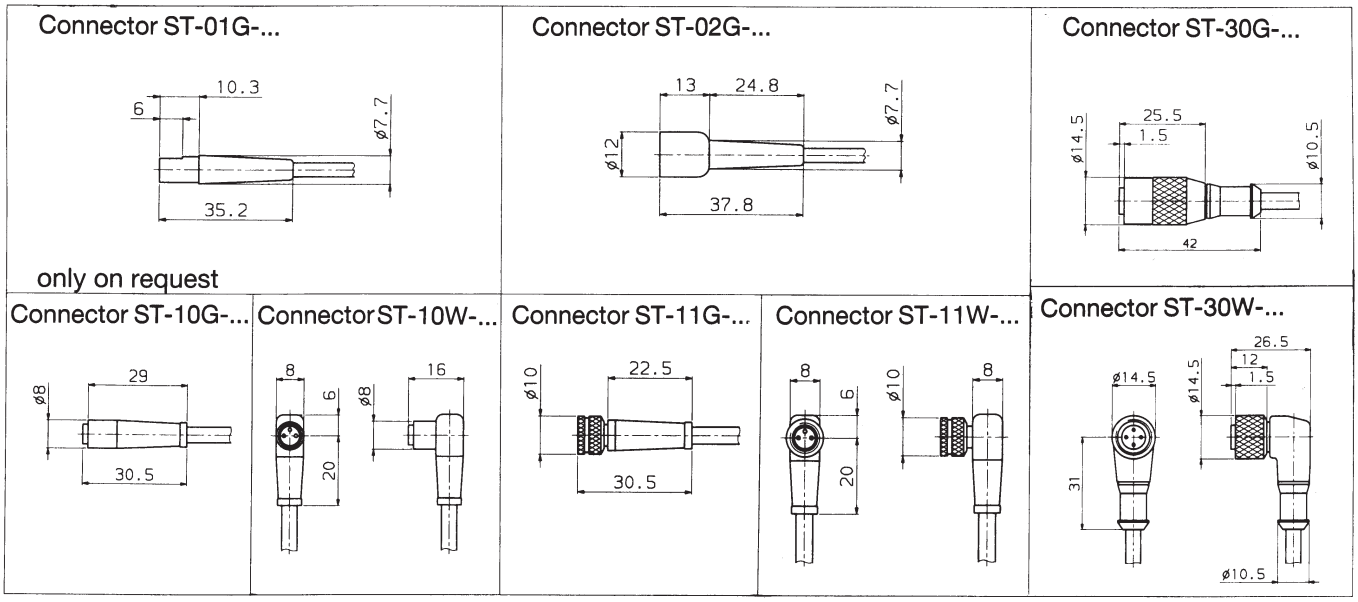
Dimension						Part No.
A	B	C	L	LB	(N)	
M8x1	5.5	1.5	15	450	(2,000 N)	AS 08/15
M8x1	5.5	1.5	40	450	(2,000 N)	AS 08/40
M10x1	7.5	2.5	50	2,135	(9,500 N)	AS 10/50
M12x1	9	2.5	60	4,600	(20,500 N)	AS 12/60
M12x1	9	2.5	80	4,600	(20,500 N)	AS 12/80
M18x1	14	2.5	100	10,100	(45,000 N)	AS 18/100



F = force or load (N) F = m x a
M = mass (kg) a = acceleration (m/s)

Marking of cables and connectors

Important: Sensors and cables have to be ordered separately. All the indicated part numbers of the sensors in the catalogue which do not have an incorporated cable refer only to the sensor - the corresponding cable is not included in this part-number
The corresponding cable has to be ordered separately according the following table.



Part-Number of cables which correspond to the Meto-Fer connector 01 and 02 (cable cross section: 0.14mm_)

straight plug	
ST-02G-3A-U2X	U2X=2m
ST-02G-3A-U5X	U5X=5m
ST-02G-3A-U9X	U9X=9m

Part-Number of cables which correspond to the Standard-Connector 10 (cable cross section: 0.25mm_)

straight plug (NAMUR / LOGIC)	right angle plug (90º) (NAMUR / LOGIC)	Length
ST-10G-3B-U2X	ST-10W-3B-U2X	U2X=2m
ST-10G-3B-U5X	ST-10W-3B-U5X	U5X=5m
ST-10G-3B-U9X	ST-10W-3B-U9X	U9X=9m

Part-Number of cables which correspond to the Standard-Connector 11 (cable cross section: 0.25mm_)

straight plug (NAMUR / LOGIC)	right angle plug (90º) (NAMUR / LOGIC)	Length
ST-11G-3B-U2X	ST-11W-3B-U2X	U2X=2m
ST-11G-3B-U5X	ST-11W-3B-U5X	U5X=5m
ST-11G-3B-U9X	ST-11W-3B-U9X	U9X=9m

Part-Number of cables which correspond to the Standard-Connector 30 (cable cross section: 0.25mm_)

straight plug (NAMUR / LOGIC)	right angle plug (90º) (NAMUR / LOGIC)	Length
ST-30G-4B-U2X	ST-30W-4B-U2X	U2X=2m
ST-30G-4B-U5X	ST-30W-4B-U5X	U5X=5m
ST-30G-4B-U9X	ST-30W-4B-U9X	U9X=9m

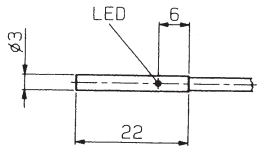
- for non-contact detection of all ferrous- and non-ferrous metals
- highest precision
- smallest size
- flush mount
- easily mounted
- IP 67 system of protection
- LED status indicator

size: ø 3mm

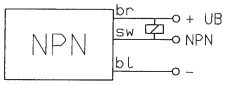
switching dist: 0.6mm

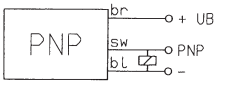
Meto-Fer sensors meet and in most cases exceeed the required minimal switching distances per DIN EN 50010

ø 3mm LOGIC



wiring diagram
br = brown sw = black
bl = blue





wires are colore coded according to EN 50044

TECHNICAL DATA	
switching hysteresis	<10%
repeatability	<0.01mm
supply voltage	10V.....30V DC
residual ripple per DIN 41755	20%
load current (-10%, +25%)	100mA
current drain, activated	<10mA
current drain, not activated	<2mA
overvoltage spike protection	yes
polarity protection	yes
short circuit protection / overvoltage protection	yes
switching function	normally open
output type	NPN or PNP
LED status indicator	yes
switching rate	3 kHz
operating temperature range	-20°C.....+70°C
casing material	metal
cable cross section	0.14mm^2
cable: -standard PUR cable -special length on request	cable integral molded
system of protection per DIN 40050	IP 67
color of active surface	black

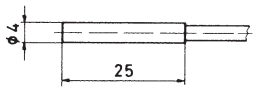
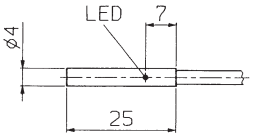
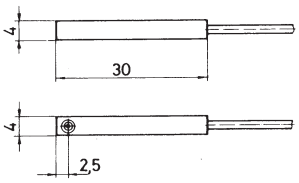
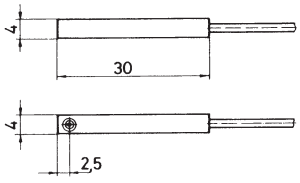
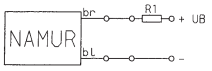
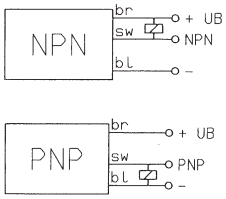
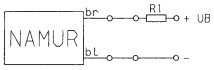
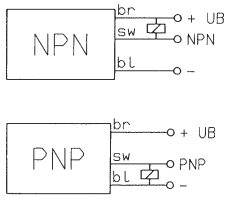
remarks to the part-number	**Part Number**
Reference codes see page 1	**IR-003-NS-U2L** **IR-003-PS-U2L**

size: ø 4mm

switching distance: 0.8mm

size: 4mm x 4mm

switching distance: 0.8mm

ø 4mm NAMUR	ø 4mm LOGIC	4 x 4mm NAMUR	4 x 4mm LOGIC
			
			
	<10%		<10%
<0.01mm	<0.01mm	<0.01mm	<0.01mm
5V.....24 V DC	8V.....30V DC	5V.....24V DC	8V.....30V DC
10%	10%	10%	10%
	200mA		200mA
<1mA	<15mA	<1mA	<15mA
<4mA	<2mA	<4mA	<2mA
	yes		yes
	yes		yes
	yes		yes
analog	normally open	analog	normally open
Namur per DIN 19234	NPN or PNP	Namur per DIN 19234	NPN or PNP
	yes		yes
2 kHz	2 kHz	2 kHz	2 kHz
-20°C.....+70°C	-20°C.....+70°C	-20°C.....+70°C	-20°C.....+70°C
metal	metal	metal	metal
0.14mm²	0.14mm²	0.14mm²	0.14mm²
cable integral molded	cable integral molded	cable integral molded	cable integral molded
IP 67	IP 67	IP 67	IP 67
NAMUR = blue	NPN = red / PNP = green	NAMUR = blue	NPN = red / PNP = green

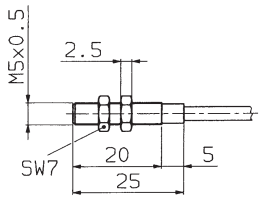
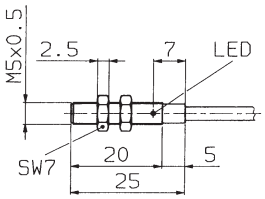
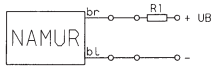
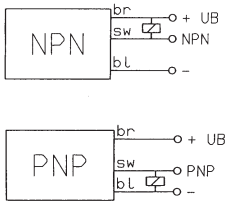
Part Number	Part Number	Part Number	Part Number
IR-004-AX-U20	**IR-004-NS-U2L** **IR-004-PS-U2L**	**IM-004-AX-U20**	**IM-004-NS-U2L** **IM-004-PS-U2L**

Reference codes see page 1

- for non-contact detection of all ferrous- and non-ferrous metals
- highest precision
- smallest size
- large switching distances
- easily mounted
- IP 67 system of protection (plug: IP 65)
- LED status indicator

size: M5 x 0.5mm

switching distance: 0.8mm

	M5 x 0.5mm NAMUR	**M5 x 0.5mm LOGIC**
Meto-Fer sensors meet and in most cases exceeed the required minimal switching distances per DIN EN 50010		
wiring diagram br = brown sw = black we = white bl = blue wires are color coded according to EN 50044		
TECHNICAL DATA		
switching hysteresis		<10%
repeatability	<0.01mm	<0.01mm
supply voltage	5V.....24V DC	8V.....30V DC
residual rippple per DIN 41755	10%	10%
load current (-10%, +20%)		200mA
current drain, activated	<1mA	<15mA
current drain, not activated	<4mA	<2mA
overvoltage spike protection		yes
polarity protection		yes
short circuit protection / overvoltage protection		yes
switching rate	analog	normally open (NO)
output type	NAMUR per DIN 19234	NPN or PNP
LED status indicator		yes
switching rate	2 kHz	2 kHz
operating temperature range	-20°C.....+70°C	-20°C.....+70°C
casing material	metal	metal
cable cross section	0.14mm²	0.14mm²
cable: -PUR cable is standard -cable has to be ordered separately (page 12)	integral molded cable	integral molded cable
system of protection per DIN 40050	IP 67	IP 67
color of the active surface	NAMUR = blue	NPN = red / PNP = green

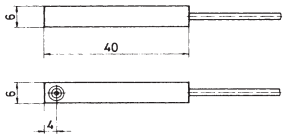
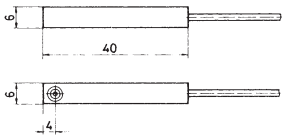
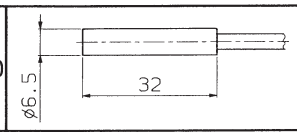
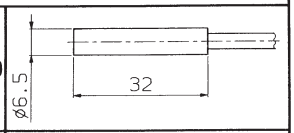
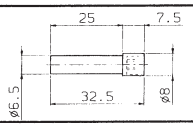
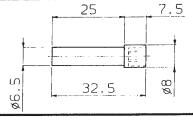
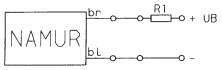
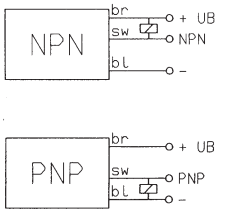
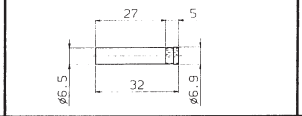
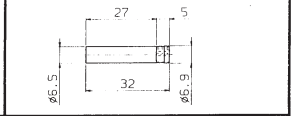
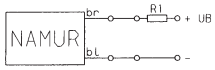
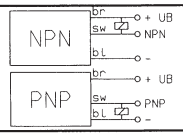
remarks to the part number	**Part Number**	**Part Number**
Reference codes see page 1	**IR-005-AX-U20**	**IR-005-NS-U2L** **IR-005-PS-U2L**

size: 6 x 6mm

switching distance: NAMUR 1.5mm / Logic 2mm

size: ø 6.5mm

switching distance: NAMUR 1.5mm / Logic 2mm

6 x 6mm NAMUR	6 x 6mm LOGIC	ø 6.5mm NAMUR	ø 6.5mm LOGIC
		U20 	U20 
		01 	01 
		10 	10 
			
	<10%		<10%
<0.01mm	<0.01mm	<0.01mm	<0.01mm
5V.....24V DC	8V.....30V DC	5V.....24V DC	8V.....30V DC
10%	10%	10%	10%
	200mA		200mA
<1mA	<15mA	<1mA	<15mA
<4mA	<2mA	<4mA	<2mA
	yes		yes
	yes		yes
	yes		yes
analog	normally open	analog	normally open
Namur per DIN 19234	NPN or PNP	Namur per DIN 19234	NPN or PNP
			yes (plug version only)
2 kHz	2 kHz	2 kHz	2 kHz
-20°C.....+70°C	-20°C.....+70°C	-20°C.....+70°C	-20°C.....+70°C
metal	metal	metal	metal
0.14mm²	0.14mm²	0.14mm²	0.14mm²
integral molded cable	integral molded cable	integral molded cable or connector (see page **12**)	integral molded cable or connector (see page **12**)
IP 67	IP 67	IP 67 (with plug = IP 65)	IP 67 (with plug = IP 65)
Namur = blue	NPN = red / PNP = green	Namur = blue	NPN = red / PNP=green

Part Number	Part Number	Part Number	Part Number
IM-006-AX-U20	**IM-006-NS-U2L** **IM-006-PS-U2L**	**IR-065-AX-U20** **IR-065-AX-010** **IR-065-AX-100**	**IR-065-NS-10L** **IR-065-PS-10L** **IR-065-NS-01L** **IR-065-PS-01L** **IR-065-NS-U2L** **IR-065-PS-U2L**

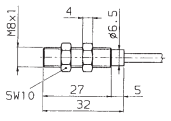
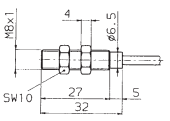
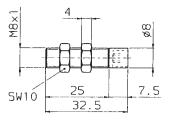
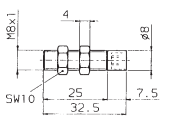
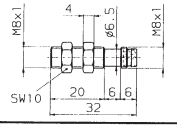
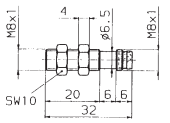
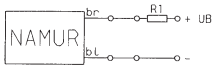
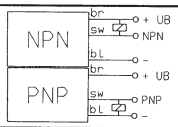
Reference codes see page 1

- for non-contact detection of all ferrous- and non-ferrous metals
- highest precision
- easily mounted
- large switching distances
- cable- and plug version
- IP 67 system of protection (plug version: IP 65)
- LED status indicator

size: M8 x 1mm

switching dist: NAMUR = 1.5mm / Logic = 2mm

Meto-Fer sensors meet and in most cases exceeed the required minimal switching distances per DIN EN 50010

	M8 x 1mm NAMUR	M8 x 1mm LOGIC
	U20 	U20 
	01 	01 
wiring diagram br = brown sw = black we = white bl = blue	11 	11 
wires are color coded accoerding to EN 50044		

TECHNICAL DATA		
switching hysteresis		<10%
repeatability	<0.01mm	<0.01mm
supply voltage	5V.....24V DC	8V.....30V DC
residual ripple per DIN 41755	10%	10%
load current (-10%, +20%)		200mA
current drain, activated	<1mA	<15mA
current drain, not activated	<4mA	<2mA
overvoltage spike protection		yes
polarity protection		yes
short circuit protection / overvoltage protection		yes
switching protection	analog	normally open
output type	NAMUR per DIN 19234	NPN or PNP
LED status indicator		yes (plug version)
switching rate	2 kHz	2 kHz
operating temperature range	-20°C.....+70°C	-20°C.....+70°C
casing material	metal	metal
cable cross section	0.14mm²	0.14mm²
cable: -PUR cable is standard -cable has to be ordered separately (page4)	integral molded cable or connector (see page 4)	integral molded cable or connector (see page 4)
system of protection per DIN 40050	IP 67 (plug version =IP 65)	IP 67 (plug version =IP 65)
color of the active surface	NAMUR = blue	NPN = red / PNP = green

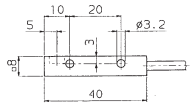
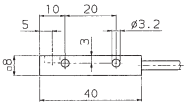
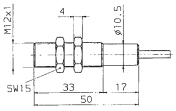
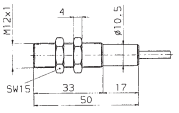
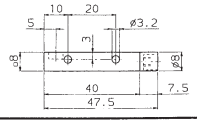
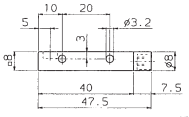
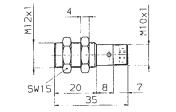
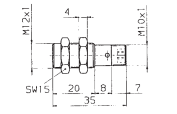
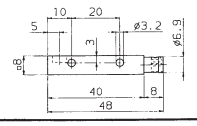
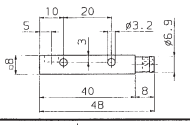
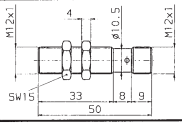
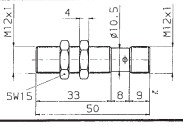
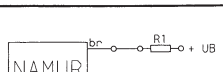
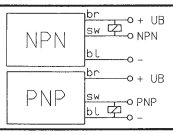
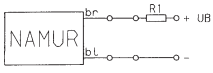
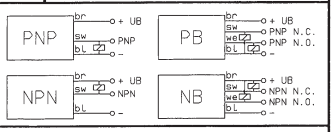
remarks to the part number	Part Number	Part Number
Reference codes see page 1	**IR-008-AX-U20** **IR-008-AX-010** **IR-008-AX-110**	**IR-008-NS-11L** **IR-008-PS-11L** **IR-008-NS-01L** **IR-008-PS-01L** **IR-008-NS-U2L** **IR-008-PS-U2L**

size: 8 x 8mm

switching distance: NAMUR =1.5mm / Logic = 2mm

size: M12 x 1mm

switching distance: NAMUR = 3mm / Logic = 3mm

8 x 8mm NAMUR		8 x 8mm LOGIC		M12 x 1mm NAMUR		M12 x 1mm LOGIC	
U20		U20		U20		U20	
01		01		02		02	
10		10		30		30	
							
			<10%				<10%
<0.02mm		<0.02mm		<0.05mm		<0.05mm	
5V.....24VDC		8V.....30V DC		5V.....24V DC		8V.....30V DC	
10%		10%		10%		10%	
		200mA				200mA	
<1mA		<15mA		<1mA		<15mA	
<4mA		<2mA		<4mA		<2mA	
		yes				yes	
		yes				yes	
		yes				yes	
analog		normally open		analog		normally open/closed	
Namur per DIN 19234		NPN or PNP		Namur per DIN 19234		NPN or PNP	
		yes (plug version)				yes (plug version)	
1 kHz		1 kHz		1 kHz		1 kHz	
-20°C.....+70°C		-20°C.....+70°C		-20°C.....+70°C		-20°C.....+70°C	
metal		metal		metal		metal	
0.14mm²		0.14mm²		0.14mm²		0.14mm²	
integral cable or cable with connector (see page 4)		integral cable or cable with connector (see page 4)		integral cable or cable with connector (see page 4)		integral cable or cable with connector (see page 4)	
IP 67 (with plug = IP 65)		IP 67 (with plug = IP 65)		IP 67 (with plug = IP 65)		IP 65 (with plug = IP 65)	
NAMUR = blue		NPN = red / PNP = green		NAMUR = blue		NPN = red / PNP = green	

Part Number	Part Number	Part Number	Part Number
IM-008-AX-100 **IM-008-AX-010** **IM-008-AX-U20**	**IM-008-NS-10L** **IM-008-PS-10L** **IM-008-NS-01L** **IM-008-PS-01L** **IM-008-NS-U2L** **IM-008-PS-U2L**	**IR-012-AX-U20** **IR-012-AX-300** **IR-012-AX-020**	**IR-012-NB-30L** **IR-012-PB-30L** **IR-012-NS-02L** **IR-012-PS-02L** **IR-012-NS-U2L** **IR-012-PS-U2L**

Reference codes see page 1

- for non-contact detection of all ferrous- and non-ferrous metals
- highest precision
- large switching distances
- plug version (IP 65)
- easily mounted
- LED staus indicator

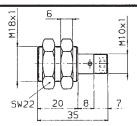
size: M18 x 1mm

switching dist: 5mm

Meto-Fer sensors meet and in most cases exceeed the required minimal switching distances per DIN EN 50010

M 18 x 1mm LOGIC

02



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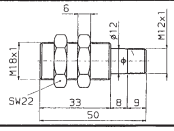
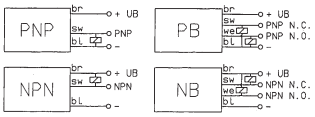


wiring diagram
br = brown sw = black
we = white bl = blue



wires are color coded according to EN 50044

TECHNICAL DATA	
switching hysteresis	<10%
repeatability	<0.1mm
supply voltage	8V.....30V DC
residual ripple DIN 41755	10%
load current (-10%, +25%)	200mA
current drain, activated	<15mA
current drain, not activated	<2mA
overvoltage spike protection	yes
polarity protection	yes
short circuit protection / overvoltage protection	yes
switching function	normally open/closed
output type	NPN or PNP
LED status indicator	yes
switching rate	500 Hz
operating temperature range	-20°C.....+70°C
casing material	metal
cable cross section	
cable: - cable has to be ordered separately (see page 4)	
system of protection per DIN 40050	IP 65
color of active surface (NPN = red / PNP = green)	depend on output function

remarks to the part number	**Part-Number**
Reference codes see page 1	**IR-018-NB-30L** **IR-018-PB-30L** **IR-018-NS-02L** **IR-018-PS-02L**

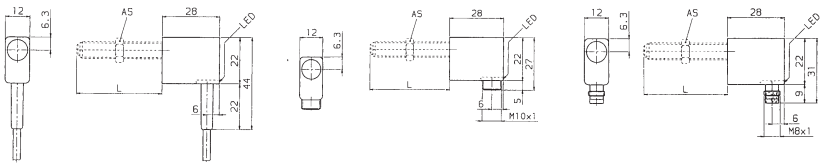
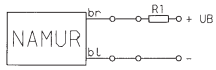
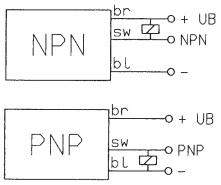
- mechanically adjust stroke limit with electronic or pneumatic sensing device
- element can be plugged on
- Type ..-NS,-PS.: sense with inductive proximity switch
- Type ..-EB: electro-mech. switch
- Type P: 3/2 directional control valve

electronic NAMUR

sensor for stop screw

electronic NPN / PNP

sensor for stop screw

	22 x 12mm NAMUR	22 x 12mm LOGIC
Plug on to any stop screw and secure with set screw.		
	U20	02 / 11
wiring diagram br = brown sw = black we = white bl = blue wires are color coded according to EN 50044		
TECHNICAL DATA		
supply voltage	5V.....24V DC	8V.....30V DC
residual ripple per DIN 41755	10%	10%
load current		200mA
current drain, activated	<1mA	<15mA
current drain, not activated	<4mA	<2mA
Max. switching current (AC and DC)		
Max. switching voltage DC		
Max. switching voltage AC		
polarity protection		yes
short circuit prot. / overvoltage prot.		yes
switching function	analog	normally open
output type	NAMUR	NPN or PNP
LED status indicator		yes
switching rate	2 kHz	2 kHz
operating temperature range	-20°C.....+70°C	-20°C.....+70°C
casing material	plastic	plastic
cable cross section	0.14mm²	0.14mm²
cable: -PUR cable is standard -cable info - (see page 4)	cable with plug (see page 4)	cable with plug (see page 4)
system of protection per DIN 40050	IP 67 (plug version = IP 65)	IP 67 (plug version = IP 65)
signal transmitter	stop screw	stop screw

remarks to the part number	Part Number	Part Number Sensor / Cable (2m.6FT)
Reference codes see page 1	**QE-022-AX-110** **QE-022-AX-020** **QE-022-AX-U20**	**5m and 9m also available* **QE-022-NS-11L / QE-022-PS-11L** — **ST-11G-3B-U2X** **QE-022-NS-02L / QE-022-PS-02L** — **ST-02G-3A-U2X**

electro-mechanical

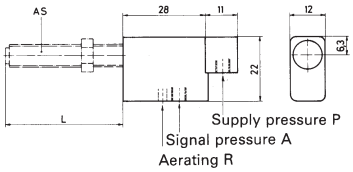
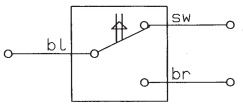
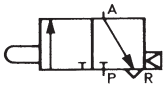
switch for stop screw

pneumatic

valve for stop screw

stop screw

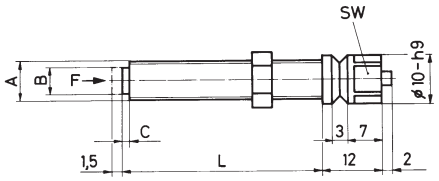
type AS

electro-mechanical	**type P = pneumatic**
U20/02	
	
	supply pressure P = 1 - 8 bar
	signal pressure A = P
	nominal width NW = 2.5mm
	pneumatic connection = M5
1.5 A	
48 VDC	
230 VAC (only for cable version)	
change over contact	
el. mechanical change over switch	
20 Hz	
-20C.....+70C	
plastic	plastic
0.14mm²	
or cable with plug	
IP 41	
stop screw	stop screw

Part Number	**Cable (2m.6FT)**
**5m and 9m also available*	
QE-022-EB-110	**ST-11G-3B-U2X**
QE-022-EB-020	**ST-02G-3A-U2X**

Part Number
P the pneumatic element is available in one type only

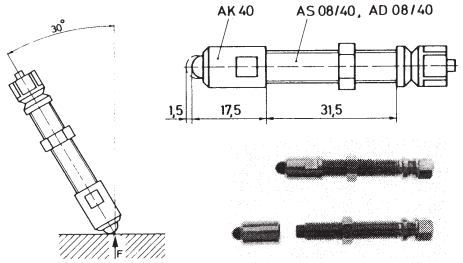
stop screws AS



dimensionen					**Part No.**
A	B	C	L	F max.	
M8x1	5.5	1.5	15	2000N	**AS 08/15**
M8x1	5.5	1.5	40	2000N	**AS 08/40**
M10x1	7.5	2.5	50	9500N	**AS 10/50**
M12x1	9	2.5	60	20500N	**AS 12/60**
M12x1	9	2.5	80	20500N	**AS 12/80**
M18x1	14	2.5	100	45000N	**AS 18/100**

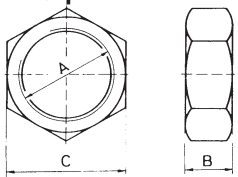
F = force or load (N) F = m x a
m = mass (kg)
a = acceleration (m/s)

spherical head type AK 40 for operating the stop screw AS 08/40 at an off centre angle



Part Number: AK 40

nuts with fine-pitch thread



dimensionen			**Part No.**
A	B	C	
M5x0.5	2.5	8	**MU 01.001**
M6x0.5	2.5	8	**MU 01.002**
M8x1	4	10	**MU 01.003**
M10x1	4	13	**MU 01.004**
M12x1	4	15	**MU 01.005**
M14x1	4	16	**MU 01.006**
M18x1	6	22	**MU 01.007**

Reference codes see page 1

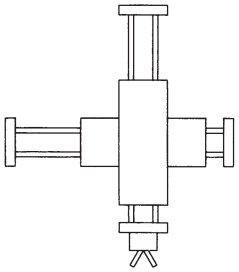
StopScrew AS (with extended stroke)

Use of the Stopscrew with Extended Stroke and the QE-OSN-PS-11L Sensing Unit (see QE022-PS-11L data on page 12) enables achievement of shorter cycle times.

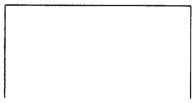
Depending on designated stroke (5, 10 or 20mm) the signal is advanced accordingly by 5, 10 or 20mm before the end stop. (The signal will be held).

Early signal compensation will be allowed for the start delay of a motion (approx. 0.1 sec.) through values and air flow.

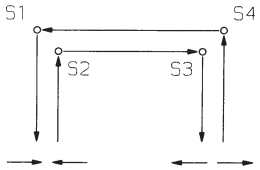
Motion Example:



Motion Curve
"AS Standard Stopscrew"

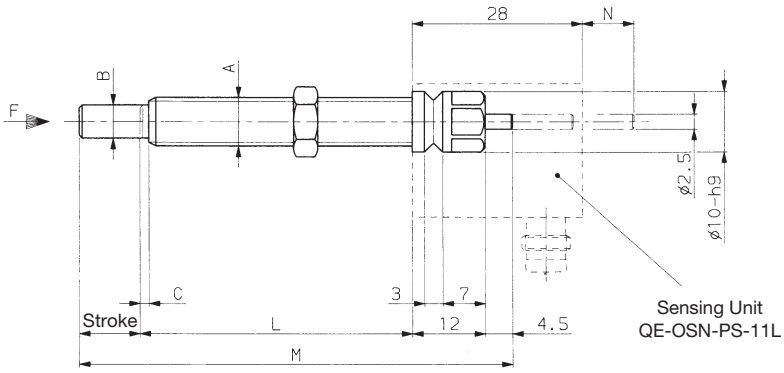


Motion Curve
"AS Stopscrew with Extended Stroke"



Example of 4 Cycle Positions (S1, S2, S3, S4) with time savings

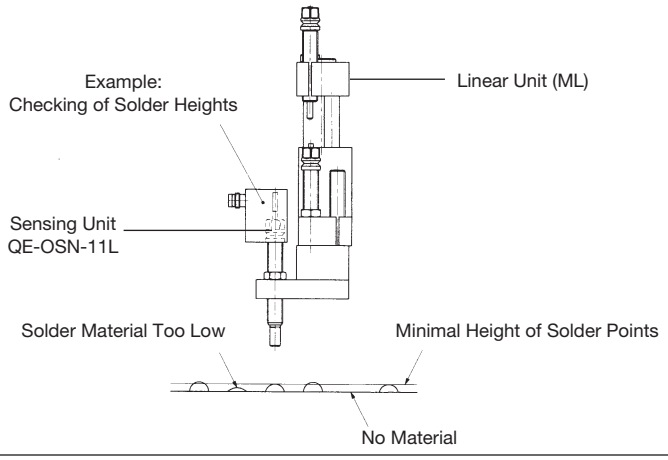
Time savings of approx. 0.5 sec.



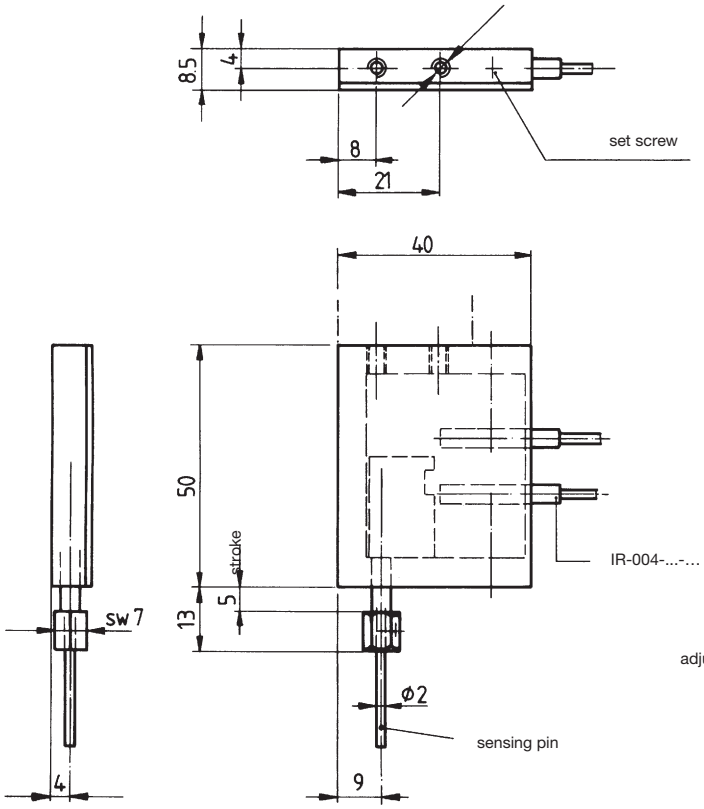
A	B	C	L	Stroke	M	N	F [N]		Order No.
							min.	max.	
M8x1	5.5	1.5	45	10	71.5	-	6	2000	AS08/45-10
M10x1	7.5	2.5	50	10	76.5	-	10	9500	AS10/50-10
M12x1	9.0	2.5	60	10	86.5	-	10	20500	AS12/60-10

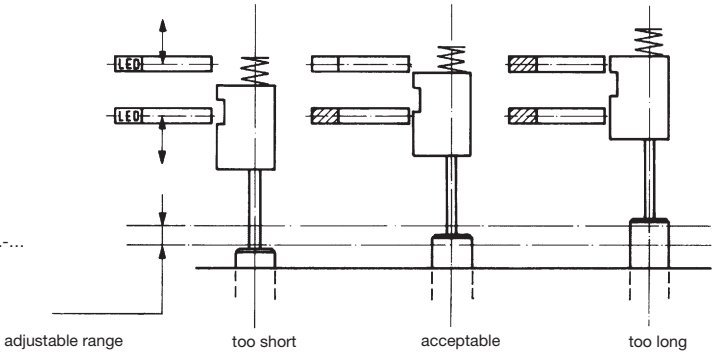
Sensing Unit

Order No:
QE-OSN-PS-11L



Height Gauge KV (precision sensing unit)





Application:

-Tolerance control with output signal for too short, acceptable, too long
-Check for failure
-Presence control

The height gauge KV is used for the control of two adjustable positions with a range from 0.03 to 5 mm.

Whenever precision feedback and adjustment are required.
Output signal; when the preset limiting values are reached.

Order No. **KV 01**

Inductive Proximity Switches for KV 01

Order No. **IR-004-NS-U2L** (NPN, normally open)
IR-004-PS-U2L (PNP, normally open)
IR-004-AX-U20 (NAMUR, analog)
*All proximity switches have molded cable, see page 6

Technical data:

-Control range is adjustable with two set screws (sensor position 1 and 2)
-Adjustable range: 0.03 - 5 mm (0.00118-0.196 inch)
-Spring force: 140 - 210 g (0.308-0.463 lb)
-Repeatability: +/- 0.03 mm (+/-0.00118 inch)
-Weight: 0.07 kg (0.154 lb)
-For horizontal and vertical applications